ANNUAL REPORT

OF THE

Medical Officer of Health

OF THE

ST. ALBANS

RURAL DISTRICT COUNCIL

FOR THE YEAR 1902,

BY

HENRY E. MAY,

M.A., M.B., B.C., CANTAB.,

MEDICAL OFFICER OF HEALTH,

ETC., ETC.

ST. ALBANS:

PRINTED BY H. A. RICHARDSON, 5, HIGH STREET.

To the Chairman and Members of the St. Albans Rural District Council.

Gentlemen,

I have the honour to present to you my report for the last year, as Medical Officer of Health for the District over which you preside.

I.—AREA AND POPULATION.

The total area of the District comprises 37,981 acres, having a population, according to the census of 1901, of 12,264 persons, and estimated up to the end of 1902 as 12,721 persons, distributed amongst seven "parishes" or "localities," as indicated in the following tables.

For the purposes of this report, the population of each "locality" is estimated by deducting the deaths from the births during the year 1902, and adding the difference to the population for the census year 1901.

During the year, however, the Salvation Army opened their Printing Works in St. Peter's Parish, bringing with them about 500 persons, about 300 of which are living in St. Peter's Rural; to the estimated population therefore of this parish, I have added 300 persons.

The average number of persons per acre is ·33.

The number of inhabited houses in the District is 2,942, which, with a population of 12,721, gives the average number of persons per house as 4·3.

The natural increase during the year has been 157 births over deaths, as shown in the following table :—

Excess of Births over Deaths in 1902.

District.	Births.	Deaths.	Excess of Births.
Harpenden Rural ...	10	1	9
Redbourne	51	23	28
St. Michaels Rural ...	17	6	11
St. Peters Rural ...	96	50	46
St. Stephens ...	39	24	15
Sandridge Rural ...	36	22	14
Wheathampstead ...	60	26	34
Total	309	152	157

In the year 1901 the excess of births over deaths was 198.

II.—VITAL STATISTICS.

The total number of Births registered in the District during the year was 309, composed of 170 males and 139 females. This gives a birth rate of 24·2 per 1000 population.

The total number of Deaths registered in the District during the year was 169.

Thirty-one non-residents were registered as having died in the District, all of which deaths took place at Hill End Asylum, and 15 residents were registered as having died outside the District; 5 of these took place in the General Hospital and 10 in the Workhouse. Deducting therefore the 31 and adding the 15 we get the total number of deaths belonging to the District as 153.

This gives the true death rate for the District as 12·02.

The death rate in this District for the year 1901 was 11·08.

The number of deaths of infants under 1 year of age was 33, which gives a death rate of 106·8 per 1000 births registered. This death rate for the year 1901 was 101·6.

Localities.	Area in Acres.	Population.	Persons per Acre.	No. of Inhabited Houses.	Average No. of Persons per House.	Births.		Rate per 1000 Pop.	Deaths of Residents.	Rate per 1000 Pop.
						M	F			
Harpenden Rural...	3453	351	·1	76	4·6	6	4	28·49	1	2·8
Redbourne.....	4260	1960	·43	483	4·05	29	22	26·69	23	11·7
St. Michaels Rural.	6079	805	·13	186	4·3	11	6	21·1	6	7·4
St. Peters Rural ...	5976	3914	·65	876	4·4	50	46	24·5	51	12·7
St. Stephens	7438	1798	·24	427	4·19	26	13	22·2	24	13·3
Sandridge Rural ...	5635	1454	·24	314	4·7	22	14	24·7	22	15·1
Wheathampstead...	5140	2439	·47	590	4·1	26	34	24·6	26	10·6
						170	139			
Totals.....	37981	12721	·33	2942	4·3	309		24·2	153	12·02

III.—INFECTIOUS DISEASES.

Under the Infectious Diseases Notification Act, 109 cases of Infectious Diseases have been notified to me during the year, as follows :—

84 Scarlet Fever, 76 of which were removed to the Sisters' Hospital.
6 ... ... Erysipelas.
6 ... ... Diphtheria
3 ... ... Enteric Fever.
10 ... . Small Pox.

The appended tables shew the number of cases of each particular disease notified in the whole District, together with the ages at which it occurred. Also the total number

notified in each locality, and the number of cases removed to the Sisters' Hospital from each locality.

The number of houses disinfected was 102, distributed as follows :—

Harpenden Rural	3
Redbourne	2
St. Michaels	3
St. Peters Rural...	33
St. Stephens	1
Sandridge	11
Wheathampstead	49

Infectious Diseases during 1902. Showing Disease; also place and month of incidence.

SCARLET FEVER.

Parishes.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November	December.	Total.
Harpenden Rural ...	...	...	...	...	...	...	...	1	2	...	...	1	4
Redbourne ...	...	...	...	1	...	...	...	...	...	...	...	...	1
St. Michaels Rural...	...	1	...	...	...	...	1	...	...	...	...	...	2
St. Peters Rural ...	6	7	3	3	1	1	1	...	...	4	...	...	26
St. Stephens ...	...	...	...	...	...	...	...	...	...	...	...	...	0
Sandridge Rural ...	1	...	...	1	...	...	2	...	...	...	...	...	4
Wheathampstead ...	2	...	1	1	...	19	10	7	2	3	2	...	47
Totals ...	9	8	4	6	1	20	14	8	4	7	2	1	84

DIPHTHERIA.

Parishes.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Total.
Harpenden Rural ...	...	...	...	...	...	...	...	...	...	...	...	...	0
Redbourne ...	...	...	...	...	...	...	...	...	...	...	...	...	0
St, Michaels Rural ...	...	...	...	...	...	...	...	...	...	...	...	...	0
St. Peters Rural ...	...	1	1	...	...	...	...	...	1	...	...	...	3
St. Stephens ...	...	...	...	..	...	...	...	...	...	...	..	...	0
Sandridge Rural ...	...	...	...	...	...	...	...	...	...	...	...	...	0
Wheathampstead ...	...	1	1	1	...	...	...	...	...	...	...	...	3
Totals ...	0	2	2	1	0	0	0	0	1	0	0	0	6

ERYSIPELAS.

Parishes.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Totals.
Harpenden Rural ...	...	...	...	...	...	...	...	...	...	...	...	...	0
Redbourne ...	...	...	...	...	...	1	...	...	...	...	...	...	1
St. Michaels Rural ...	...	...	...	...	...	...	...	...	...	...	...	...	0
St. Peters Rural ...	1	...	...	1	1	...	...	...	...	...	...	...	3
St. Stephen ...	...	...	...	...	1	...	...	...	...	...	...	...	1
Sandridge Rural ...	...	...	...	...	...	...	...	1	...	...	...	...	1
Wheathampstead ...	...	...	...	...	...	...	...	...	...	...	...	...	0
Totals ...	1	0	0	1	2	1	0	1	0	0	0	0	6

ENTERIC FEVER.

Parishes.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Totals.
Harpenden Rural ...	...	...	...	...	...	...	...	...	...	...	...	...	0
Redbourne ...	...	...	1	...	...	...	...	...	...	...	...	...	1
St. Michaels Rural ...	...	...	...	...	...	...	...	...	...	...	...	...	0
St. Peters Rural ...	...	...	...	...	1	...	...	...	...	...	...	...	1
St. Stephens ...	...	...	...	...	...	...	...	...	...	...	...	...	0
Sandridge Rural ...	...	..	...	...	...	...	...	...	...	...	...	...	0
Wheathampstead ...	...		...	...	...	...	...	. .	...	...	...	1	1
Totals ...	0	0	1	0	1	0	0	0	0	0	0	1	3

SMALL POX.

Parishes.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	Totals.
Harpenden Rural ...	...	...	...	...	...	...	...	...	...	...	...	...	0
Redbourne ...	...	...	...	...	...	...	...	...	...	...	...	...	0
St. Michaels Rural ...	...	...	...	...	...	...	...	...	...	...	...	...	0
St. Peters Rural ...	...	...	...	...	...	...	5	...	...	. .	...	...	5
St. Stephens ...	1	...	...	...	...	...	...	...	...	...	...	...	1
Sandridge Rural ..	...	...	3	1	...	...	...	...	...	...	...	...	4
Wheathampstead ...	...	...	...	...	...	...	...	...	...	...	...	...	0
Totals ...	1	0	3	1	0	0	5	0	0	0	0	0	10

By far the greatest number of notifications received were of Scarlet Fever, and it will be seen that Wheathampstead Parish is responsible for a very large proportion. This is due almost entirely to one overlooked case which was not detected until dasquamation was well advanced. The case in question was that of a young girl, who having no occupation, had visited several parts of the district giving the infection, which spread over the whole locality, with the result that 19 cases were notified in June, 10 in July, and 7 in August.

Most of the cases were removed to the Sisters' Hospital as soon as they were known of, but the disease had spread too quickly, and was so scattered that it was not possible to check it satisfactorily.

Unfortunately we were visited this year with Small Pox, 10 cases in all being notified to me.

The disease broke out at three different times, and in three different localities, and it is satisfactory to state that in no case was there any spread of infection in the nature of an epidemic.

The first case was in St. Stephens Parish, the infection being traced to a case in St. Albans. The patient was removed at once to South Mimms Hospital; all occupants of the house were vaccinated and put into quarantine for 16 days; everything in the bedroom was burnt, except the furniture, which was washed; the house was efficiently disinfected, cleaned, and whitewashed.

There was no spread of infection.

The second case occured in Sandridge Parish, bordering on the City Boundary. The source of infection in this case was not conclusively proved, but it was probably directly or indirectly traceable to an outbreak which took place in the City Lodging House, in the St. Albans Urban District.

Unfortunately the rash had been out for five days before a doctor was called in and the case notified. The case was removed to the Temporary Hospital on the Union ground. 14, 15, and 16 days later three other cases were notified to me, all traceable directly or indirectly to this case. One of these cases died the same night that it was seen, and before removal was possible, the remaining two cases were removed to the Temporary Hospital on the Union ground.

Disinfection was in all cases carried out as in the first case.

No further cases occurred in this locality.

The next and last outbreak took place in out-lying villages in St. Peters Parish.

In connection with this outbreak I was requested to send a full report to the Local Government Board, which I give verbatim :—

Victoria Street,
St. Albans,
August 1st, 1902.

Re Outbreak of Small Pox at Colney Heath and Tyttenhanger Green, in St. Peters Parish, of St. Albans Rural District.

Dear Sir,

In accordance with your instructions I herewith forward you my report on above.

On July 1st I was asked to see a suspicious case of Small Pox in my District.

I visited at once and found William Swain, aged 25 years, of Colney Heath, was suffering from Small Pox.

From enquiry I learned that his mother, Mrs. Swain, aged 64 years, of Colney Heath, and his brother Nathan Swain, aged 33 years, of Colney Heath, were both ill, and on visiting them found they were both suffering from Small Pox.

These three persons (who occupied three different houses in Colney Heath), had on June 19th, visited William Swain, of Boreham Wood, who was dying of what they were told was "blood poisoning." I also heard that Edward Swain, of Tyttenhanger Green went with them.

Mrs. Swain stayed the night with her son William Swain, of Boreham Wood, who died next day, July 20th.

Mrs. Swain, William Swain, and Nathan Swain, of Colney Heath, were removed to the South Mimms Small Pox Hospital the next day, July 2nd.

Most of the occupants of the infected houses were re-vaccinated the same evening, July 1st.

I sent notice of the outbreak to the Public Vaccinator, and to the Vaccination Officer, with the result that vaccination was freely offered and freely accepted in the district.

I also wrote to the Medical Officer of Health of Boreham Wood, informing him of the outbreak and giving him particulars.

On July 2nd I visited Edward Swain, aged 44 years, of Tyttenhanger Green, and found him to be suffering from Small Pox. He was removed the same day to the South Mimms Hospital.

Hearing that a "Swain" of Little Berkhampstead had visited the man Swain at Boreham Wood, I wrote informing the Medical Officer of Health for Little Berkhampstead of the fact.

Vaccination was freely performed at Tyttenhanger Green, both by myself and the Public Vaccinator.

All known contacts of the four cases were, with two or three exceptions, willingly vaccinated.

Disinfection was done as follows :—

All bedding, carpets, curtains, etc., in fact everything except furniture was destroyed by burning. The rooms were thoroughly fumigated with sulphur, the paper was stripped off and the rooms whitewashed and re-papered.

Preventive measures :—

Nathan Swain lived over a small "Grocers" or "Ham and Sweet Shop," kept by his wife. This shop was closed for 14 days.

The Colney Heath Schools were closed the same evening of the outbreak, July 1st.

All known contacts were kept under observation.

On July 8th, Mrs. Pollard of Colney Heath, was notified as suffering from Small Pox. Mrs. Pollard is a married daughter of Mrs. Swain, from whom she no doubt caught the infection. She was removed to the South Mimms Hospital, and disinfection carried out as before.

There have been no further cases to date.

Faithfully yours,

HENRY E. MAY, M.B.,

Medical Officer of Health, St. Albans Rural District.

I should like here to record my appreciation of the extremely energetic and willing way in which Mr. Macara (the Sanitary Inspector) worked in connection with these cases, to which very largely must be attributed our success in preventing any epidemic.

Passing on to a detailed statement as to each locality, I have to report as follows :—

Harpenden Rural.

Area in acres, 3453. Population, 351. Average number of persons per acre, ·1. Number of inhabited houses, 76.

Average number of persons per house, 4·6. Births, m. 6, f. 4, total 10. Deaths, 1 ; giving rate per 1000 of 28·49 for the former, and 2·8 for the latter. Deaths under 1 year of age, 0.

Four cases of Infectious Diseases were notified to me during the year, all of which were Scarlet Fever, and all were removed to the Sisters' Hospital ; the number of houses disinfected was 3.

The number of cowsheds and dairies registered is 1.

Nothing occurred in this locality which required my intervention.

Redbourne.

Area in acres, 4260. Population, 1960. Average number of persons per acre, ·43. Number of inhabited houses, 483. Average number of persons per house, 4·05. Births, m. 29, f. 22, total 51. Deaths, 23 ; giving rate per 1000 of 26·69 for the former, and 11·7 for the latter. Deaths under 1 year of age, 5.

Two cases of Infectious Diseases were notified to me during the year : 1 Scarlet Fever, which was removed to the Sisters' Hospital, and 1 Erysipelas. The number of houses disinfected was 2.

The number of dairies and cowsheds registered is 4.

I have analysed 14 samples of water from wells situated in this locality ; 17 wells situated in Church End and West Common have been closed, 6 wells in the same districts have been cleaned out.

About 28 dumbwells have been sunk during this year, and defective drainage in 19 different houses has been attended to.

St. Michaels Rural.

Area in acres, 6079. Population, 805. Average number of persons per acre, ·13. Number of inhabited houses, 186. Average number of persons per house, 4·3. Births, m. 11, f. 6, total 17. Deaths, 6; giving rate per 1000 of 21·1 for the former, and 7·4 for the latter. Deaths under 1 year of age, 1.

Three cases of Infectious Diseases were notified to me during the year: 2 Scarlet Fever, which were removed to the Sisters' Hospital, and 1 Enteric Fever. The number of houses disinfected was 3.

The number of dairies and cowsheds registered is 1.

Nothing occurred in this locality which required my intervention.

St. Peters Rural.

Area in acres, 5976. Population, 3914. Average number of persons per acre, ·65. Number of inhabited houses, 876. Average number of persons per house, 4·4. Births, m. 50, f. 46, total 96. Deaths, 51; giving rate per 1000 of 24·5 for the former, and 12·7 for the latter. Deaths under 1 year of age, 16.

Thirty-eight cases of Infectious Diseases were notified to me during the year: 26 Scarlet Fever, of which 25 were removed to the Sisters' Hospital; 3 Diphtheria; 3 Erysipelas; 1 Enteric Fever; and 5 Small Pox.

Owing to an outbreak of Small Pox in this locality, the Colney Heath School was closed from 1st July for 14 days, after which they arranged to have the summer holidays.

The number of houses disinfected was 33.

The number of dairies and cowsheds registered is 5.

Complaints have been received of the pollution of the

ditches by sewage from the Hill End Asylum. The matter is being attended to by the authorities of the Hill End Asylum.

St. Stephens.

Area in acres, 7438. Population, 1798. Average number of persons per acre, ·24. Number of inhabited houses, 427. Average number of persons per house, 4·19. Births, m. 26, f. 13, total 39. Deaths, 24 ; giving rate per 1000 of 22·2 for the former, and 13·3 for the latter. Deaths under 1 year of age, 4.

Two cases of Infectious Diseases were notified to me during the year : 1 of Scarlet Fever, which was not removed to the Sisters' Hospital, and 1 of Small Pox. The number of houses disinfected was 1.

The number of dairies and cowsheds registered is 5.

The St. Albans Water Works Company have laid on their mains to Park Street and Colney Street, and already 22 houses have got their supply from this source.

Sandridge.

Area in acres, 5365. Population, 1454. Average number of persons per acre, ·24. Number of inhabited houses, 314. Average number of persons per house, 4·7. Births, m. 22, f. 14, total 36. Deaths, 22 ; giving rate per 1000 of 24·7 for the former, and 15·1 for the latter. Deaths under 1 year of age, 5.

Eleven cases of Infectious Diseases were notified to me during the year : 4 of Scarlet Fever, 2 of which were removed to the Sisters' Hospital ; 1 Erysipelas ; 2 Diphtheria ; 4 Small Pox. The number of houses disinfected was 11.

Owing to an outbreak of Small Pox in this locality, the Sandridge Schools were closed on March 30th for 21 days.

The number of dairies and cowsheds registered is 3.

Wheathampstead.

Area in acres, 5140. Population, 2439. Average number of persons per acre, ·47. Number of inhabited houses, 590. Average number of persons per house, 4·1. Births, m. 26, f. 34, total 60. Deaths, 26; giving rate per 1000 of 24·6 for the former, and 10·6 for the latter. Deaths under 1 year of age, 2.

Forty-nine cases of Infectious Diseases were notified to me during the year: 47 of which were of Scarlet Fever, 42 of which were removed to the Sisters' Hospital; 1 Enteric Fever; and 1 Diphtheria. The number of houses disinfected was 49.

The number of dairies and cowsheds registered is 7.

Owing to an outbreak of Scarlet Fever in this locality, the Wheathampstead School was closed on June 25th for 14 days, after which the summer holidays commenced.

Preventive Measures.

The Sisters' Hospital, which we share with the Urban Authorities of St. Albans and Harpenden, has always been able to accommodate all our Scarlet Fever cases.

We have reserved two beds at the South Mimms Hospital for Small Pox. These beds will serve us in good stead for sporadic cases, and for the first case or two of an epidemic. The Hospital Authorities will, too, take in further cases if they have room, but it is important that we should have more efficient accommodation for coping with an epidemic.

Isolation accommodation for cases of Typhoid Fever and Diphtheria, should have the careful and immediate consideration of this Council.

A suitable conveyance for the removal of infected bedding, is urgently needed.

GENERAL SANITATION.

Cowsheds and Dairies.

The number of cowsheds on register in the year 1902, is 26, distributed as follows :—

Harpenden Rural	1
Redbourne	4
St. Michaels	1
St. Peters	5
St. Stephens	5
Sandridge	3
Wheathampstead	7

Regulations with regard to cleansing and draining, etc., of dairies and cowsheds have been passed by this Council.

Appended is the report of the Veterinary Inspector, from which it will be seen that 4 cows suffering from tuberculosis of the udder, and 2 cows suffering from general tuberculosis in an advanced state, have been detected and slaughtered.

Slaughter Houses.

Slaughter houses in this district are not registered or licensed. This should be attended to in accordance with the powers received under Secs. 169 and 170, of the Public Health Act, 1875.

Cowsheds, slaughter houses, and schools in the district have been visited and defects where necessary made good.

FACTORIES AND WORKSHOPS.

Under the Factories and Workshops Act, 1901, which came into force January 1st, 1902, important powers and duties are imposed on the Medical Officer of Health and the Local Authorities.

District Councils have duties to perform in connection with every place of work coming under the Act, but these

duties vary according as the particular place comes within the term Factory or Workshop or other description.

The term Factory includes all places where mechanical power is used in the manufacturing process.

The term Workshop includes all places (not being Factories), in which manual labour is exercised by way of trade in making or repairing any article for sale if the employer of the persons working has the power of access or control. It also includes all Tenement Workshops, all Bakehouses without mechanical power, all Laundries (with certain execptions), all Domestic Workshops (with certain exceptions.)

The following are briefly the duties imposed on this Council by the Factory Act 1901 :—

REGISTRATION OF WORKSHOPS.

The Council must keep a Register of all Workshops in District.

A Register is kept which shows the number of Factories and Workshops in the District, and in each parish or locality of the District. It also shows nature of employment in each Factory or Workshop.

There are 78 Factories and Workshops registered in the District, all of which have been visited by the Sanitary Inspector on more than one occasion, and nearly all have been visited by me personally. Of these, 14 are Factories and 64 are Workshops, distributed in the different parishes or localities as follows :—

	Factories.	Workshops.	Totals.
Harpenden Rural ...	...	...	0
Redbourne	1	24	25
St. Michaels Rural ...	...	2	2
St. Peters Rural ...	7	12	19
St. Stephens ...	3	13	16
Sandridge	2	...	2
Wheathampstead ..	1	13	14
	14	64	78

Table showing number and nature of employment of Factories and Workshops in each locality.

	Harpenden Rural.	Redbourne.	St. Micheal's Rural.	St. Peters Rural.	St. Stephens.	Sandridge.	Wheathampstead.	Totals.
Bakers	...	5	...	4	2	...	4	15
Brush Makers ...	...	1	...	...	...	...	...	1
Silk Works	...	1	...	...	...	...	...	1
Fishmongers	...	1	...	...	...	...	...	1
Jam Makers	...	1	...	...	...	...	...	1
Saddlers	...	1	...	1	...	...	1	3
Tailors	...	1	...	1	1	...	2	5
Straw Hat Makers ...	...	1	...	...	...	...	1	2
Laundries	...	1	...	3	1	...	...	5
Dressmakers	...	4	...	...	2	...	...	6
Builders	...	2	1	1	2	...	2	8
Flour Mills	...	2	...	...	3	...	...	5
Plumbers	...	1	...	...	...	...	1	2
Carpenters	...	2	1	1	4	...	1	9
India Rubber Works	...	...	...	...	...	...	1	1
Printers	...	...	...	3	...	...	...	3
Cycle Works	...	...	...	1	...	...	...	1
Brick Kilns	...	..	...	4	...	1	...	5
Farriers	...	1	...	...	1	...	1	3
Chandlers	...	...	...	..	...	1	...	1
Totals	0	25	2	19	16	2	14	78

N.B.—Under the heading of Carpenters are included Cabinet Makers, Upholsterers, Undertakers, Wheelwrights and Coachbuilders.

SANITATION.

The following particulars have to be noted in each case:—Cleanliness, Ventilation, Drainage of wet floors, Air space. Each person must be allowed 250 c.f. air space, or 400 c.f. overtime.

The above particulars have been attended to.

There is no overcrowding in any Workshop in the district, nearly all provide at least 500 c.f. air space, and many provide much more.

ADDITIONAL SANITARY PROVISION FOR BAKEHOUSES.

Retail Bakehouses must conform with certain regulations with regard to Closets, Sleeping places, Lime washing (which must be done twice a year), Floor level.

There are no wholesale Bakehouses in the District. There is only one underground Bakehouse in the District. All Bakehouses are limewashed except one, which is of glazed brick. All limewashed Bakehouses have been re-limewashed twice during the year. All are now in a satisfactory condition.

CLOSET ACCOMMODATION.

Every Factory or Workshop must have suitable sanitary conveniences with separate provision for each sex.

One closet to every 25 persons of either sex is considered sufficient

All Factories and Workshops in the District are so supplied.

SAFETY FROM FIRE.

Every Factory or Workshop employing more than 40 persons must have a proper means of escape from fire.

There are 5 Factories and Workshops in this District which employ more than 40 persons.

They are situated as follows :—

St. Peters 3 Factories.
Sandridge 1 Factory.
Wheathampstead 1 Factory.
Redbourne 1 Workshop.

These all have adequate means of escape from fire except one in St. Peters Parish, and in this case the matter is being attended to.

HOME WORK (Secs. 107—115).

I. The District Council may prohibit certain specified classes of home work being given out from Factories, etc.

II. The District Council may prohibit work from being done in dwellings where notifiable disease exists.

III. It is the duty of all persons giving out homework of specified classes to keep a list of such workers, which must be open for inspection by officers of the District Council, and copies of such list must be sent twice a year to the District Council.

There are no out workers of the specified classes in this District.

In conclusion, I have to thank the Council for their invariable courtesy to myself, and also to the officers for the help they are always most ready to give.

I am, Gentlemen,
Your obedient servant
HENRY E. MAY,
M.A., M.B., B.C., Cantab.
Medical Officer of Health.

Veterinary Inspector's Report.

During the past twelve months I have inspected :—

5	Cowsheds	situated	in St. Peters	District	containing	53	cows.
5	,,	,,	St. Stephens	,,	,,	47	,,
7	,,	,,	Wheathampstead		,,	51	,,
4	,,	,,	Redbourne	,,	,,	23	,,
1	,,	,,	Harpenden Rural		,,	25	,,
1	,,	,,	St. Michaels	,,	,,	8	,,
3	,,	,,	Sandridge	,,	,,	36	,,
26						243	

I have found 4 cows suffering from tuberculosis of the udder, and 2 from general tuberculosis in an advanced state, all of which cows have since been slaughtered.

With reference to the cowsheds, there is still a lot of room for improvement, both in drainage and ventilation, several of which are still under investigation.

H. F. REYNOLDS,
M.R.C.V.S.,
Veterinary Inspector to the St. Albans District Council.

Sanitary Inspector's Report.

Summary of work done through the Sanitary Inspector in the Rural Sanitary District of St. Albans during the year ending December 31st, 1902.

Complaints received	4
Nuisances detected without complaint...	206
Nuisances abated	200
Notices Served	261
Cottages inspected	48
Slaughter-houses inspected	6
Bakehouses inspected	15
Dairies and Milk Shops inspected	3
Cowsheds inspected	29
Workshops inspected	80
Houses disinfected	104
Wells sunk or improved supplies of water afforded ...	19
Wells cleansed or repaired	19
Wells closed	20
Houses connected with sewers	1
Houses connected with water mains	22
Earth, pail, or improved Privies constructed or existing Privies altered	54
Privies and W.C.'s repaired; W.C.'s supplied with water	1
Animals improperly kept removed	2
Samples of water taken for Analysis	27
Compensation paid for destruction of infected bedding	8

R. BLAIR MACARA,

Inspector of Nuisances.

Table I.—For Whole District.

Year.	Population estimated to middle of each year.	Births.		Total Deaths Registered in the District.				Total Deaths in Public Institutions in the District.	Deaths of Non-residents registered in Public Institutions in the District.	Deaths of Residents registered in Public Institutions beyond the District.	Nett Deaths at all Ages belonging to the District.	
				Under 1 Year of Age.		At all Ages.						
		Number	Rate.*	Number	Rate per 1000 Births registered.	Number	Rate.*				Number	Rate.*
1	2	3	4	5	6	7	8	9	10	11	12	13
1892	14180	412	29·06	34	80·1	211	14·8	—	1	15	225	15·8
1893	14350	385	26·8	42	109·09	194	13·6	—	1	19	213	14·8
1894	14520	389	28·1	20	51·0	140	9·7	—	0	10	150	10·3
1895	14742	399	27·07	46	115·2	187	12·6	—	0	9	196	13·2
1896	14991	429	28·3	39	90	170	11·3	—	0	15	185	12·3
1897	15704	389	24·7	44	113·3	182	11·5	—	0	11	193	12·2
1898	11840	275	23·2	29	90·3	139	11·5	—	0	0	139	11·5
1899	12035	306	25·4	25	81·7	111	9·22	—	0	0	111	9·22
1900	12122	259	21·3	34	131·27	172	14·1	9	8	21	185	15·2
1901	12264	344	32·7	35	101·6	180	14·6	32	32	0	146	11·08
Averages for Years 1892—1901	13674	358	26·7	34	96·3	168	12·2	4·1	4·2	10	174	12·5
1902	12721	309	24·2	33	106·8	169	13·28	34	31	15	153	12·02

* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

Note.—The deaths to be included in Column 7 of this table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-residents" is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions there; and by the term "Residents" is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions elsewhere.

Area of District in acres (exclusive of area covered by water) - 37981.

Total population at all ages - - 12264
Number of inhabitated houses - - 2827 } At Census of 1901.
Average number of persons per house 4·3

N.B.—In 1898 Harpenden Urban having an area of 3618 acres and with a population of about 4000 became a separate district.

TABLE II.—Vital Statistics in Separate Localities.

	Population estimated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.
	a.	*b.*	*c.*	*d.*
1899.				
Harpenden Rural	385	8	1	1
Redbourne	2030	53	23	6
St. Michaels Rural ...	945	19	9	3
St. Peters Rural	2930	77	25	5
St. Stephens	2120	45	12	1
Sandridge Rural	1195	34	12	4
Wheathampstead ...	2430	70	29	5
1900.				
Harpenden Rural	390	4	3	1
Redbourne	2035	46	39	11
St. Michaels Rural ...	950	11	5	1
St. Peters Rural	2954	88	41	10
St. Stephens	2138	23	29	0
Sandridge Rural	1210	25	12	2
Wheathampstead	2445	52	43	9
1901.				
Harpenden Rural	342	10	3	0
Redbourne	1932	40	28	10
St. Michaels Rural ...	764	16	9	2
St. Peters Rural	3548	115	34	8
St. Stephens	1783	41	17	1
Sandridge Rural	1440	48	19	5
Wheathampstead	2405	65	36	9
1902.				
Harpenden Rural	351	10	1	0
Redbourne	1960	51	23	5
St. Michaels Rural ...	805	17	6	1
St. Peters Rural	3914	96	51	16
St. Stephens	1798	39	24	4
Sandridge Rural	1454	36	22	5
Wheathampstead	2439	60	26	2

TABLE III.—Cases of Infectious Disease Notified during the Year 1902.

Notifiable Diseases.	Cases Notified in whole District.							Total Cases Notified in each Locality.							No. of Cases Removed to Hospital from each Locality.						
	At all ages.	At Ages—Years.						Harpenden Rural.	Redbourne.	St. Michaels Rural.	St. Peters Rural.	St. Stephens.	Sandridge.	Wheathampstead.	Harpenden Rural.	Redbourne.	St. Michaels Rural.	St. Peters Rural.	St. Stephens.	Sandridge.	Wheathampstead.
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upwards.														
Small Pox ...	10	...	1	2	2	5	...	...	...	...	5	1	4	...	...	...	...	5	1	3	...
Cholera ...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria ...	6	...	4	2	...	...	...	...	...	...	3	...	2	1	...	...	...	...	...	...	...
Membranous Croup...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas ...	6	...	...	...	...	4	2	...	1	...	3	1	1	...	...	...	...	...	...	...	...
Scarlet Fever ...	84	...	30	52	2	...	...	4	1	2	26	...	4	47	4	1	2	25	...	2	42
Typhus Fever ...	...	...	...	..	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
Enteric Fever ...	3	...	...	2	...	1	...	...	...	1	1	...	...	1	...	...	...	...	...	...	...
Relapsing Fever ...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continued Fever ...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plague ...	...	...	...	...	...	..	...	...	...	..	...	...	...	...	...	...	...	...	...	..	...
Totals ...	109	0	35	58	4	10	2	4	2	3	38	2	11	49	4	1	2	30	1	5	42

TABLE IV.—Causes of, and Ages at, Death during Year 1902.

Causes of Death.	Deaths in or belonging to whole District at subjoined Ages.							Deaths in or belonging to Localities (at all Ages).							Total Deaths in Public Institutions in the District.
	All ages.	Under 1 year	1 & under 5.	5 & under 15.	15 & under 25	25 & under 65	65 & upwards	Harpenden Rural.	Redbourne.	St. Michaels Rural	St. Peters Rural.	St. Stephens.	Sandridge.	Wheathampstead.	
Small Pox	3	...		1	...	2	...	...	...	...	1	1	1	...	...
Measles	...	...		...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping-cough	2	2	...	...	...	...	...	...	...	...	1	1	...	...	1
Dipththeria and Membranous Croup	2	...	2	...	...	...	...	...	...	...	1	...	...	1	...
Croup	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fever { Typhus	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
Fever { Enteric	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fever { Other continued	1	...	...	.	1	...	...	...	...	...	...	...	1	...	...
Epidemic Influenza	...	...	..	...	...	...	...	...	...	...	...	...	...	...	..
Cholera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plague	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhœa	5	5	...	...	...	...	...	...	1	...	2	1	1	...	2
Enteritis...	3	...	...	1	...	...	2	...	1	...	1	...	...	1	2
Puerperal Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Septic Diseases	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Phthisis	12	...	...	...	2	10	...	...	1	...	3	2	4	2	6
Other Tubercular Diseases	4	...	...	4	...	...	...	...	...	...	1	...	3	...	...
Cancer, Malignant Diseases	7	...	...	...	...	3	4	...	...	1	1	1	1	3	2
Bronchitis	15	2	2	...	...	1	10	...	2	1	7	2	1	2	...
Pneumonia	5	2	1	1	...	...	1	...	..	...	2	.	1	2	2
Pleurisy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Diseases of Respiratory Organs	3	...	1	1	...	1	...	...	...	...	1	...	...	2	2
Alcoholism—Cirrhosiis of Liver ...	2	...	...	...	...	...	2	..	...	...	...	...	1	1	...
Venereal Diseases	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...
Premature Birth	7	7	...	...	...	...	...	...	2	1	3	;	...	...	..
Diseases and Accidents of Parturition	5	...	...	1	...	4	...	...	...	...	4	1	...	...	...
Heart Diseases	17	...	...	1	1	6	9	...	2	...	4	3	2	6	4
Accidents	7	1	...	1	...	5	...	1	1	1	1	3	...	...	...
Suicides	2	...	...	...	...	1	1	...	...	1	...	1	...	...	...
All other causes	50	13	4	3	1	8	21	...	13	1	18	7	5	6	15
All causes	153	33	10	14	5	41	49	1	23	6	51	24	22	26	34

THE RURAL DISTRICT COUNCIL OF ST. ALBANS.

Summary of the Reports of the Inspector of Nuisances, for the Year ending December 31st, 1902.

Parish.	No. of Inspections and re-inspections.	Complaints received.	Preliminary notices.	Statutory notices.	Matters attended to and Nuisances abated under Public Health Act, 1875.													Samples of water from wells.	Proceedings taken to close polluted wells.	No. of wells closed.	No. of wells cleansed & repaired	Houses closed as unfit for human habitation.	Remarks.
					Defective Drains.	Defective W.C.'s, E.C.'s, privies or cesspools.	Drainage provided to houses.	W.C.'s or E.C.'s provided in lieu of old privies.	Flushing Cisterns provided to W.C.'s.	Offensive accumulations.	Nuisances from keeping Animals.	Offensive Pools, Ditches, etc.	Ashbins provided.	Houses cleansed and repaired.	Houses disinfected.	Overcrowding.	Total.						
Redbourn ...	520	...	79	...	19	20	28	28	...	...	...	2	23	2	2	...	126	14	...	17	6	...	
St. Peters ...	312	2	34	...	16	10	2	1	...	4	...	3	14	33	33	...	116	3	...	2	2	...	
St. Stephens ...	416	...	83	6	6	7	3	5	...	...	...	1	...	1	1	...	24	8	...	1	6	...	
St. Michaels ...	63	...	6	...	4	4	...	...	...	...	...	...	...	3	3	...	14	...	...	...	...	...	
Sandridge ...	229	...	23	...	9	8	4	11	1	...	...	...	24	11	11	1	80	2	...	...	1	...	
Wheathampstead...	318	2	26	2	10	15	8	9	...	...	2	...	...	49	49	...	144	...	...	...	4	...	
Harpenden Rural...	36	...	2	...	1	2	...	...	...	...	...	...	...	3	3	...	9	...	...	...	...	...	
Totals ...	1894	4	253	8	65	66	45	54	1	4	2	6	61	102	102	1	513	27	...	20	19	...	

(Signed), R. BLAIR MACARA, Assoc. San. Inst.,
Inspector of Nuisances.